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$$\angle AOE = \angle EOC = \alpha, \quad \angle COF = \angle FOB = \beta$$

$$2\alpha + 2\beta = 180^\circ \rightarrow \alpha + \beta = \angle EOF = 90^\circ$$

$$(S.S) \triangle EOC \sim \triangle OFC \rightarrow EC \cdot CF = CO^2$$

$$24 = CO^2 \rightarrow CO = \sqrt{24}$$

$$AB = 2CO = 2\sqrt{24} = 4\sqrt{6}$$