



**Example 1 98 :** As shown in Figure 1 ,  $O$  is  $\Delta$ the circumcenter of  $ABC$ , if  $\angle ACB = \angle OAB$ , then  $AO \perp OB$ .

$$\left( \frac{O-B}{O-A} \right)^2 \frac{C-A}{B-O} \frac{C-O}{A-C} \frac{C-A}{A-B} \frac{B-C}{C-O} = -1,$$